SHARP

MINI COMPONENT SYSTEM

MODEL

CD-SW200E

OPERATION MANUAL

Thank you for purchasing this SHARP product.
To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

CD-SW200E Mini Component System consisting of CD-SW200E (main unit), CP-S200H (front speaker) and CP-SW200E (subwoofer).

CD-R/RW
Playable

5CD CHANGER

COMPACT
disc
DIGITAL AUDIO

MP3 with
NAVIGATION

Plays
Windows
TM Media TM
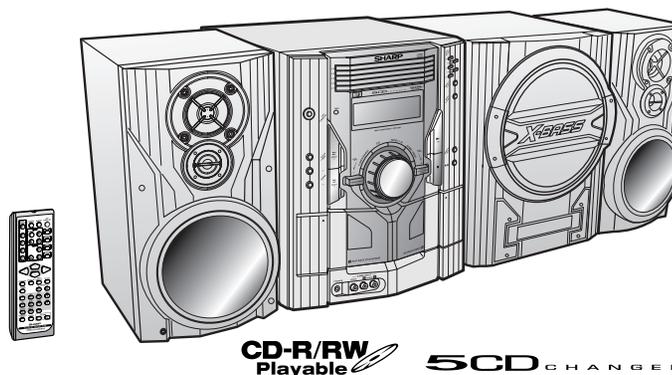
Special notes

WARNINGS

● When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.

● This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.

● To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

Note for users in Australia:

Copyright may exist in material you wish to record. Copying or broadcasting such material without permission of the relevant licensees or owners of the copyright is prohibited by law. SHARP is not in a position to authorise the copying or broadcasting of copyright materials and nothing in this OPERATION MANUAL should be implied as giving that authority.

For other countries:

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to the relevant laws in your country.

CAUTION:

● This product is classified as a CLASS 1 LASER product.

● Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAIAs
Wavelength: 795 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS.

WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT
GEÖFFNET. NICH IN DIE STRAHLUNG SCHAUEN ODER
DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.

ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE.
NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES
INSTRUMENTS OPTIQUES.

2

Special notes

Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com.

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Accessories

Please confirm that the following accessories are included.

Remote control × 1	AM loop aerial × 1
FM aerial × 1	
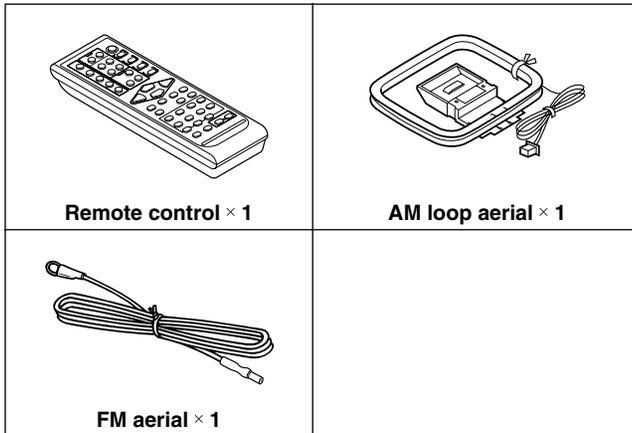
Note:
Only the above accessories are included.

Contents

Important Instruction

3

Precautions

■ General
● Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.

10 cm (4") 10 cm (4") 10 cm (4")

10 cm (4")

Floor Table
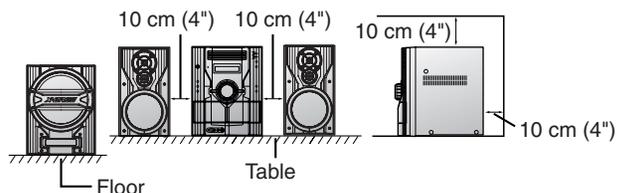
● **Do not place subwoofer system on the same surface as main unit to prevent sound interruption during playback.**
● Use the unit on a firm, level surface free from vibration.
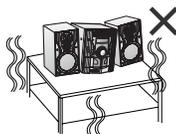
● Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.

● Do not place anything on top of the unit.
● Do not expose the unit to moisture, to temperatures higher than 60˚C (140˚F) or to extremely low temperatures.
● If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
● In case of an electrical storm, unplug the unit for safety.
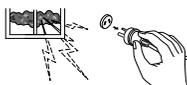
● Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.

● **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**

● The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
● No naked flame sources, such as lighted candles, should be placed on the apparatus.
● Attention should be drawn to the environmental aspects of battery disposal.
● This unit should only be used within the range of 5˚C - 35˚C (41˚F - 95˚F).

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control
The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels, which occurs whilst turning the unit on with the volume control setting up high, or whilst continually listening at high volumes.

4

Controls and indicators
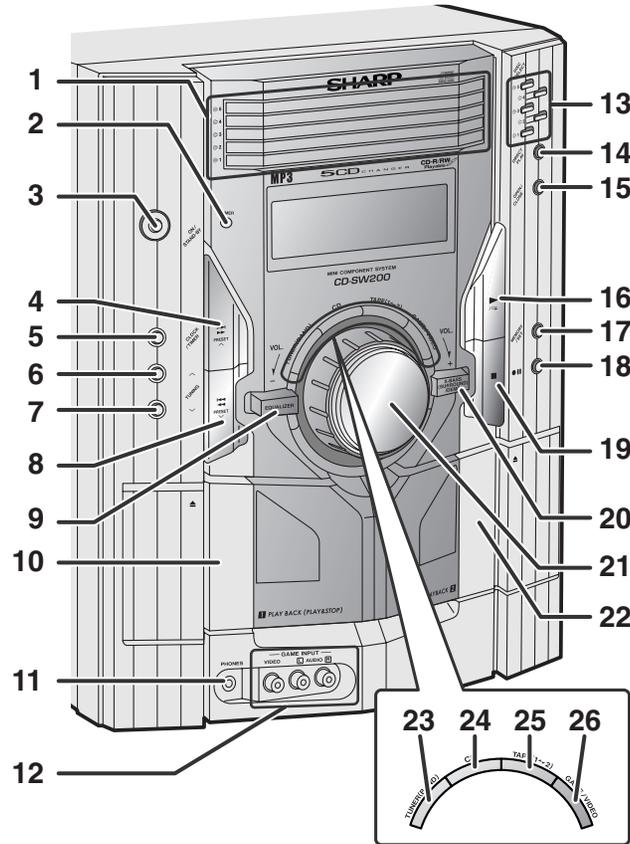
■ Front panel

**Reference page**

1. Disc Trays 16
2. Timer Indicator 32
3. On/Stand-by Button 13
4. Disc Track Up or Fast Forward, Tape 2 Fast Forward,
   Tuner Preset Up, Time Up Button 14, 17, 26, 28
5. Clock/Timer Button 14, 31, 34
6. Tuning Up Button 25
7. Tuning Down Button 25
8. Disc Track Down or Fast Reverse, Tape 2 Rewind,
   Tuner Preset Down, Time Down Button 14, 17, 26, 28
9. Equaliser Mode Select Button 13
10. Tape 1 Cassette Compartment 27
11. Headphone Socket 36
12. Game/Video Input Socket 35
13. Disc Number Select Buttons 15
14. Disc Direct Play Button 18
15. Disc Tray Open/Close Button 15
16. Disc Play or Repeat, Tape Play Button 17, 19, 27
17. Memory/Set Button 14, 20, 26, 31, 34
18. Tape 2 Record Pause Button 29, 30
19. Disc or Tape Stop Button 17, 28
20. Extra Bass (Surround)/Demo Mode Button 11, 13
21. Volume Control 13
22. Tape 2 Cassette Compartment 27
23. Tuner (Band) Button 25
24. CD Button 15
25. Tape (1 ↝ 2) Button 27
26. Game/Video Button 35

General Information

5

Controls and indicators (continued)

General Information
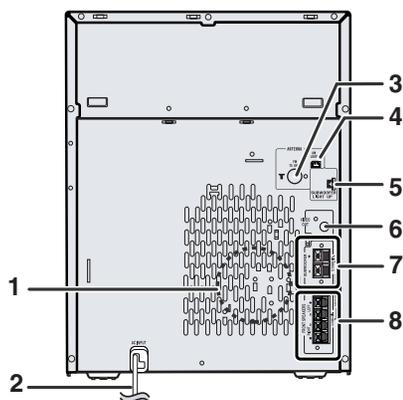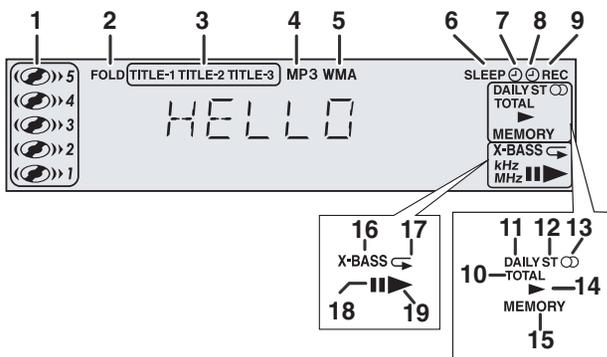
■ Display

Reference page

1. Disc Number Indicators 18
2. MP3/WMA Folder Indicator 21
3. MP3/WMA Title Indicators 21
4. MP3 Indicator 16
5. WMA Indicator 16
6. Sleep Indicator 34
7. Timer Play Indicator 32
8. Timer Recording Indicator 32
9. Tape 2 Record Indicator 29
10. MP3/WMA Total Indicator 22
11. Daily Timer Indicator 32
12. FM Stereo Mode Indicator 25
13. FM Stereo Receiving Indicator 25
14. Tape Play Indicator 27
15. Memory Indicator 20, 24, 26
16. Extra Bass Indicator 13
17. Disc Repeat Play Indicator 19
18. Disc Pause Indicator 17
19. Disc Play Indicator 16

■ Rear panel

Reference page

1. Cooling Fan 11
2. AC Power Lead 11
3. FM 75 Ohms Aerial Terminal 10
4. AM Loop Aerial Socket 10
5. Subwoofer Light-up Socket 10
6. Video Output Socket 35
7. Subwoofer Terminals 10
8. Front Speaker Terminals 10

6

■ **Front Speaker**
1. Tweeter
2. Super Tweeter
3. Woofer
4. Bass Reflex Duct
5. Speaker Wire

1
2
3
4
5
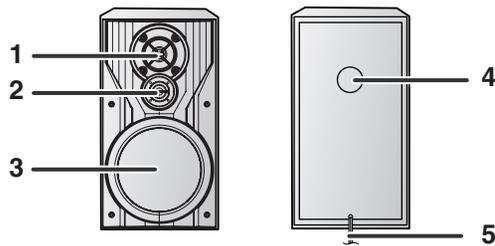
■ **Subwoofer**
1. Subwoofer
2. Bass Reflex Duct
3. Subwoofer Light-Up Wire
4. Speaker Wire

1
2
3
4

General Information

7

Controls and indicators (continued)

General Information
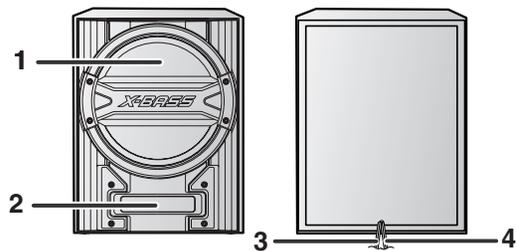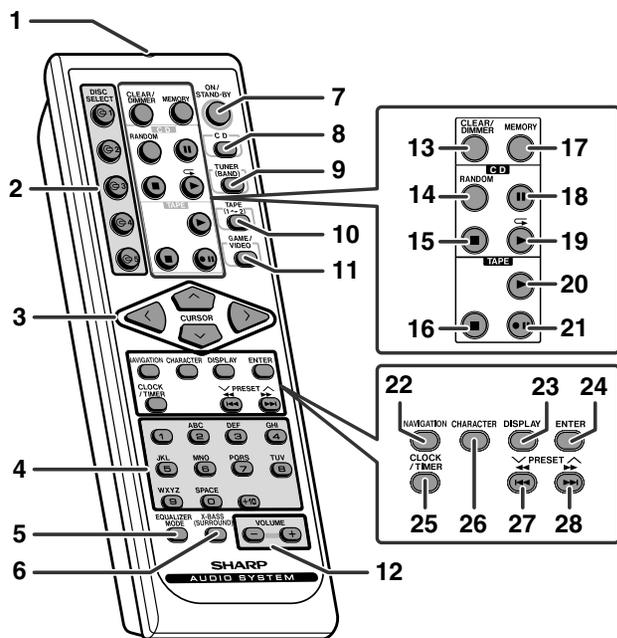
■ **Remote control**

Reference page

System connections

Make sure to unplug the AC power lead before any connections.

■ **Aerial connection (see page 10)**

FM aerial   **AM loop aerial**

Right speaker   **Left speaker**   **Subwoofer**

Subwoofer
Light-up wire

■ **Speaker connection**
(see page 10)

Wall socket
(AC 230 - 240 V, 50 Hz)

■ **AC power connection (see page 11)**

Preparation for Use

9

■ **Placing the speaker system**
There is no distinction between the right and the left speakers.

Subwoofer
Left speaker Main unit Right speaker

Floor
Table
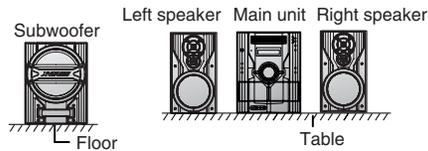
Note:
The speaker grilles are not removable.

■ **AC power connection**
After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the demonstration mode.

**Wall socket
(AC 230 - 240 V, 50 Hz)**
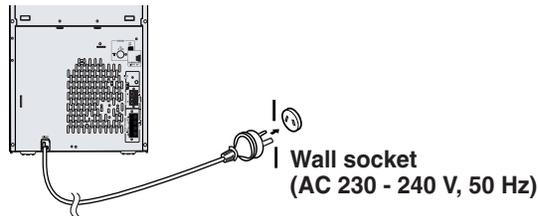
Notes:
● The unit will start the tape initialisation when plugged in to the wall socket. During this process, initialising sound will be heard and the unit cannot be turned on. Wait until the process is finished.
● Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

Cooling fan:

The main unit is built with a cooling fan at the rear of the unit for improved cooling. Please do not cover the opening of the fan with any obstacles, as this will block proper ventilation.
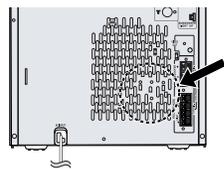
■ **Demonstration mode**
The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll and the sub-woofer will light up in flashing mode.

HELLO

To cancel the demonstration mode:
When the unit is in the power stand-by mode (demonstration mode), press the X-BASS (SURROUND)/DEMO button. The unit will enter the low power consumption mode and the subwoofer light up will be off.

X-BASS (SURROUND) /DEMO

To return to the demonstration mode:
When the unit is in the power stand-by mode, press the X-BASS (SURROUND)/DEMO button again.

Note:
When the power is on, the X-BASS (SURROUND)/DEMO button can be used to select the extra bass mode.

■ **External FM aerial**
Use an external FM aerial if you require better reception. Consult your dealer.

ANTENNA AM LOOP
FM 75 OHMS

External FM aerial
75 ohms coaxial cable
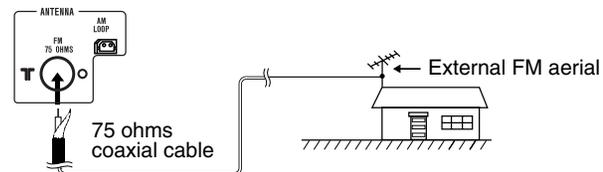
Note:
When an external FM aerial is used, disconnect the supplied FM aerial wire.

Preparation for Use

11

Remote control

■ Battery installation

Use 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar). Batteries are not included.

1 **Open the battery cover.**
2 **Insert the batteries according to the direction indicated in the battery compartment (back of the battery cover).**
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 **Close the battery cover.**
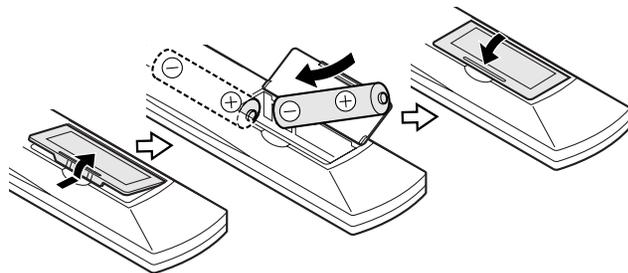
Precautions for battery use:
● Replace all old batteries with new ones at the same time.
● Do not mix old and new batteries.
● Remove the batteries if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:
● Do not use rechargeable batteries (nickel-cadmium battery, etc.).
● Installing the batteries incorrectly may cause the unit to malfunction.

Battery removal:
Open the battery cover and pull up the battery to take out.

Notes concerning use:
● Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
● Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
● Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
● Keep the remote control away from moisture, heat, shock, and vibrations.

■ Test of the remote control

Check the remote control after checking all the connections (see pages 9 - 11).
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.

Remote sensor

0.2 m - 6 m (8" - 20')

15° 15°
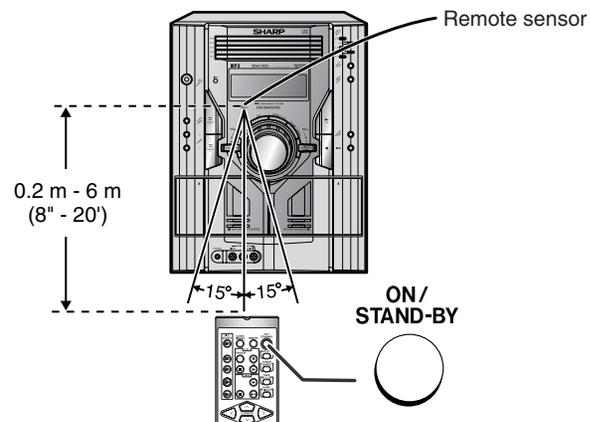
ON/ STAND-BY

General control
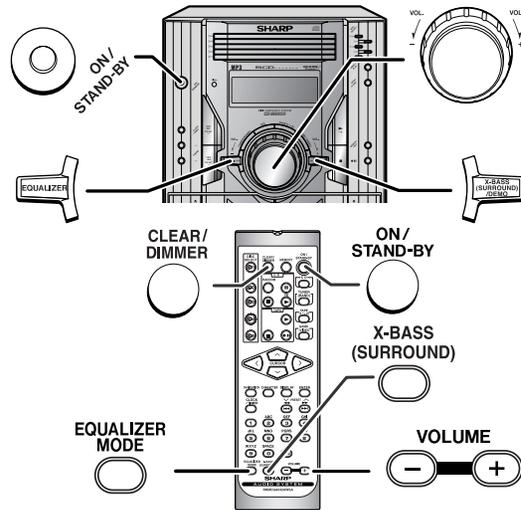
■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

■ Illumination light control

When the power is turned on, light illuminates around the display. To turn on/off the light, hold down the CLEAR/DIMMER button on the remote control for 2 seconds or more.

■ Subwoofer light up control

The subwoofer will light up according to the level of the music source played back during X-BASS (SURROUND) ON mode only. To turn on/off the light, hold down the CLEAR/DIMMER button on the remote control for 2 seconds or more.

■ Volume auto fade-in

If you turn off and on the main unit with the volume set to 27 or higher, the volume starts at 16 and fades in to the last set level.

■ Volume control

Main unit operation:
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

Remote control operation:
Press the VOLUME (+ or -) button to increase or decrease the volume.

VOLUME:10

0 ····· 30↔MAXIMUM

■ Surround mode

When the X-BASS (SURROUND)/ DEMO [X-BASS (SURROUND)] button is pressed, the unit will enter the surround mode and adjust low bass and high frequency automatically according to volume input. To cancel this mode, press the X-BASS (SURROUND)/ DEMO[X-BASS (SURROUND)] button again.

X-BASS

SURROUND   X-BASS

⇕

OFF

■ Equaliser

When the power is first turned on, the unit will enter FLAT mode. When the EQUALIZER (EQUALIZER MODE) button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER (EQUALIZER MODE) button repeatedly until the desired sound mode appears.

In CD/TUNER/TAPE mode	In GAME/VIDEO mode
FLAT — No equalisation.	FLAT — No equalisation.
ROCK — For rock music.	ROCK — For rock music.
CLASSIC — For classical music.	CLASSIC — For classical music.
POPS — For pop music.	ACTION — For action games.
VOCAL — Vocals are enhanced.	SPORTS — For sports games.
JAZZ — For jazz.	RACING — For car racing games.

Note:
If the EQUALIZER (EQUALIZER MODE) button is pressed in the surround mode, it will be cancelled automatically.

13

Setting the clock
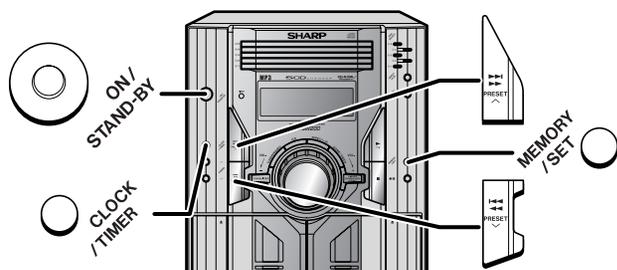
In this example, the clock is set for the 24-hour (0:00) display.

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CLOCK/TIMER button.**

3 **Within 10 seconds, press the I◄◄ ◄◄ or ►► ►►I button to select "CLOCK", and press the MEMORY/SET (MEMORY) button.**

CLOCK   ⇨   -0:00-

4 **Press the I◄◄ ◄◄ or ►► ►►I button to select 24-hour or 12-hour display and then press the MEMORY/SET (MEMORY) button.**

-0:00-   ⇨   -0:00
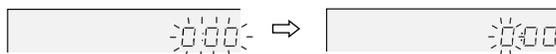
"0:00"   →   The 24-hour display will appear.
                   (0:00 - 23:59)
"AM 0:00"   →   The 12-hour display will appear.
                   (AM 0:00 - PM 11:59)
"AM 12:00"   →   The 12-hour display will appear.
                   (AM 12:00 - PM 11:59)

5 **Press the I◄◄ ◄◄ or ►► ►►I button to adjust the hour and then press the MEMORY/SET (MEMORY) button.**

-10:00   ⇨   10:00-

Press the I◄◄ ◄◄ or ►► ►►I button once to advance the time by 1 hour. Hold it down to advance continuously.

6 **Press the I◄◄ ◄◄ or ►► ►►I button to adjust the minutes and then press the MEMORY/SET (MEMORY) button.**

10:30   ⇨   10:30

Press the I◄◄ ◄◄ or ►► ►►I button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.

To confirm the time display:
[When the unit is in the stand-by mode]
Press the CLOCK/TIMER button.
The time display will appear for about 10 seconds.

[When the power is on]
Press the CLOCK/TIMER button.
Within 10 seconds, press the I◄◄ ◄◄ or ►► ►►I button to display the time.
The time display will appear for about 10 seconds.

Note:
The "CLOCK" will appear or time will flash to confirm the time display when the AC power supply is restored after a power failure or unplugging the unit. If incorrect, readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from step 1. If the "CLOCK" does not appear in step 3, step 4 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:
1   Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 38 for details.]
2   Perform "Setting the clock" from step 1.

Note:
The clock can also be set with the remote control.

14

Listening to a CD or MP3/WMA disc

This system can play back a standard CD, CD-R/RW in the CD format and CD-R/RW with MP3 or WMA files, but cannot record on them. Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the device that was used for recording.

MP3:
MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.
MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.
● This system supports MPEG 1 Layer 3, MPEG 2 Layer 3, and VBR files.
● During VBR file playback, time counter in the display may differ from its actual playback time.

WMA:
WMA files are Advanced System Format files that include audio files which are compressed with Windows Media Audio codec. WMA is developed by Microsoft as an audio format file for Windows Media Player.
● "MP3" or "WMA" indicator will light up after the unit reads information on an MP3 or WMA disc.

Auto power on function:
When you press any of the following buttons, the unit turns on.
● CD button (main unit and remote control): The unit turns on and the "CD" function is activated.
● CD ► / ⏏ button on the remote control: The unit turns on and CD playback starts (regardless of the last function).
● ► / ⏏ button on the main unit: The unit turns on and playback of the last function starts (CD,TAPE,TUNER,GAME/VIDEO).

Auto power off function:
In the stop mode of CD, MP3 or WMA operation, the main unit enters the stand-by mode after 15 minutes of inactivity.
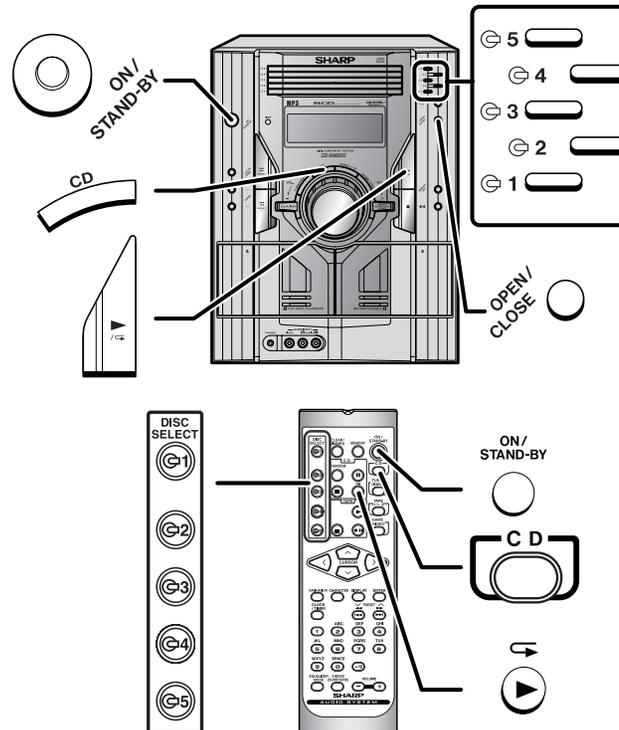
Listening to a CD or MP3/ WMA disc (continued)

1	Press the ON/STAND-BY button to turn the power on.
2	Press the CD button.
3	Press the ☺ 1 button and within 5 seconds, press the OPEN/CLOSE button to open the disc tray 1.
4	Place the disc on the disc tray 1, label side up.

Be sure to place 8 cm (3") disc in the middle of the disc trays.

12 cm (5")   8 cm (3")
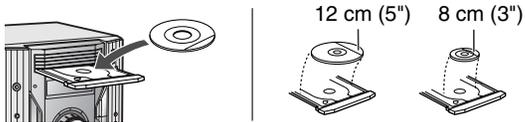
5 **Press the OPEN/CLOSE button to close the disc tray 1.**

MP3 indicator
WMA indicator

[CD]   [MP3/WMA]
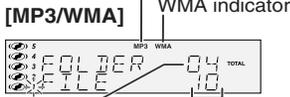
Total number of   Total playing   Total number   Total number
tracks on the disc   time of the disc   of folders   of files

● Due to the structure of the disc information, it takes longer to read an MP3/WMA disc than a normal CD (approximately 20 to 90 seconds).

6 **You can place discs on the trays 2 - 5 by following steps 3 - 5.**

7 **Press the ► / ⌐ button to start playback.**

Disc play indicator

16

● Playback will begin from track 1 on disc 1. After that disc finishes playing, the next disc will automatically play.
● After the last track on the fifth disc is played, the unit will stop automatically.
● When there is no disc in one of the disc trays (1 - 5), the empty tray will be skipped to the next tray with a disc.

To exchange other discs whilst playing a disc:
Press one of the ☺ 1 - ☺ 5 buttons for the stopped disc and within 5 seconds, press the OPEN/CLOSE button and exchange discs.

To remove the discs:
In the stop mode, press the ☺ 1 - ☺ 5 button and within 5 seconds, press the OPEN/CLOSE button.

Caution:
● Do not place two discs in one disc tray.
● Do not play discs of special shapes (heart, octagon, etc.) as it may cause malfunctions.
● Do not push the disc tray whilst it is moving.
● If the power fails whilst the tray is open, wait until the power is restored.
● If the disc tray is stopped with force, "ER-CD20" will appear on the display for 3 seconds and the unit will not function. If this occurs, press the ON/STAND-BY button to enter the power stand-by mode and then turn the power on again.
● If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
● If a disc is damaged, dirty, or loaded upside down, the disc will skip or not play.

■ Various disc functions

Function	Main unit	Remote control	Operation
Play			Press in the stop mode.
Stop			Press in the playback mode.
Pause	———		Press in the playback mode. Press the ▶ / ⏎ button to resume play-back from the paused point.
Track up/ Track down			Press in the playback or stop mode. If you press the button in the stop mode, press the ▶ / ⏎ button to start the desired track.
Fast for-ward/Fast reverse			Press and hold down in the playback mode. Release the button to resume playback.

Notes for CD:
● Track up/track down is possible only within individual discs.
● Fast forward/fast reverse is possible only within individual discs.
● When the end of the last track is reached during fast forward, "END" will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.

Notes for MP3/WMA discs:
● Track up/track down is possible only within individual discs.
● The sound is heard during fast forward/fast reverse with a CD, but not with an MP3/WMA disc. For fast forward or fast reverse of an MP3/WMA disc, refer to playback time on the display.
● Fast forward/fast reverse is possible only within individual tracks.
● When the end of the track is reached during fast forward, the next track will be played. Playback of the track will begin when its be-ginning is reached during fast reverse.

■ To change the display (MP3/WMA discs only)

Whilst a disc is playing, press the DISPLAY button.
Each time the button is pressed, the display will change as follows.

DISPLAY

Track number   Elapsed playback time   Folder name

File name

CD or MP3/WMA disc Playback

17
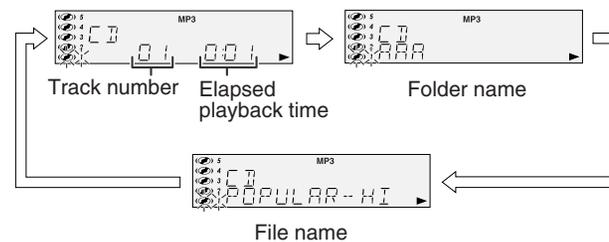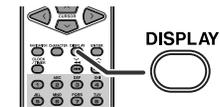
Advanced CD or MP3/WMA disc playback

■ To specify a disc to play

You can play a disc by specifying the disc number.

1 **Press one of the ⊜ 1 - ⊜ 5 buttons to select the desired disc.**

```
⊚ 5
⊚ 4   C D
⊚ 3        12  31:15
⊚ 2
```
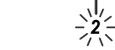
Selected disc number

2 **Within 5 seconds, press the DIRECT PLAY button on the main unit.**

```
⊚ 5
⊚ 4   C D
⊚ 3        01   0:05  ►
⊚ 1
```

DIRECT PLAY
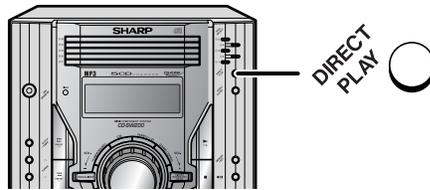
● Playback will begin from track 1 on the chosen disc.
● After the last track on the chosen disc is played, the unit stops automatically.

Note:
If a disc tray with no disc is selected, playback will not start and the disc indicator will go out.

To stop playback:
Press the ■ (CD ■) button.

■ Direct track search

By using the direct search buttons, the desired tracks on the current disc can be played.

Use the direct search buttons on the remote control to select the desired track whilst playing the selected disc.

```
⊚ 5
⊚ 4   C D
⊚ 2        02    0:00
⊚ 1
```

Selected track number

● The direct search buttons allow you to select up to number 9.
● When selecting number 10 or higher, use the "+10" button.

A. For example, to choose 13
1 Press the "+10" button once.
2 Press the "3" button.
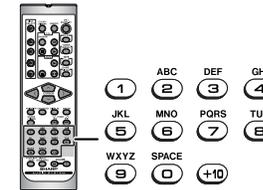
B. For example, to choose 30
1 Press the "+10" button three times.
2 Press the "0" button.

If the direct search buttons are pressed whilst the disc is stopped, press the ► / ⊡ button to start the desired track on the current disc.

Notes:
● A track number higher than the number of tracks on the disc cannot be selected.
● During random play, direct search is not possible.

18

■ Repeat play

Repeat play can play all 5 discs, all tracks on a chosen disc, or a programmed sequence continuously.

To repeat all tracks on up to 5 discs:

Press the ► / ⟲ button twice.

To repeat desired tracks:

Perform steps 1 - 6 in "Programmed play" section on page 20 and then press the ► / ⟲ button twice.

To cancel repeat play:
Press the ► / ⟲ button again.
"⟲" will go out.

To repeat all tracks on the chosen disc:
1 Press one of the ⊙ 1 - ⊙ 5 buttons.
2 Within 5 seconds, press the DIRECT PLAY button twice.

DIRECT PLAY

To cancel repeat play:
Press the DIRECT PLAY button again.
"⟲" will go out.

■ Random play

The tracks on the disc(s) can be played in random order automatically.

To random play all tracks on up to 5 discs:

Press the RANDOM button on the remote control.
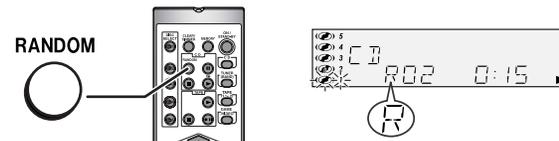
RANDOM

To cancel random play:
Press the ► / ⟲ button.
"R" will go out.

To random play all tracks on the chosen disc:
1 Press one of the ⊙ 1 - ⊙ 5 buttons.
2 Within 5 seconds, press the DIRECT PLAY button.
3 Press the RANDOM button on the remote control.
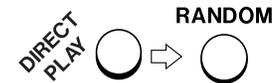
DIRECT PLAY ⇨ RANDOM

To cancel random play:
Press the DIRECT PLAY button.
"R" will go out.

Notes:
● If you press the ►►I button during random play, you can move to the next track by the random operation. On the other hand, the I◄◄ button does not allow you to move to the previous track. The beginning of the track being played will be located.
● In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)

Caution:
After performing repeat or random play, be sure to press the ■ (CD ■) button. Otherwise, the disc(s) will play continuously.

CD or MP3/WMA disc Playback

19

Advanced CD or MP3/WMA disc playback (continued)

CD or MP3/WMA disc Playback

■ Programmed play
You can choose up to 32 selections for playback in the order you like.

1 Whilst in the stop mode, press the MEMORY/SET (MEMORY) button to enter the programming save mode.

PROGRAM ⇨ CD P-01
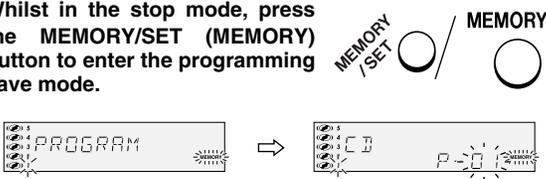
2 Press one of the ⊜ 1 - ⊜ 5 buttons to select the desired disc.

CD 01 P-01
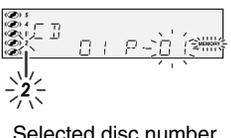
Selected disc number

3 Press the direct search buttons on the remote control to select the desired track.

CD 02 P-01
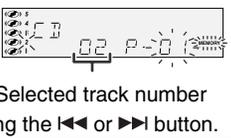
Selected track number

You can also select a track by pressing the I◀◀ or ▶▶I button.

4 Press the MEMORY/SET (MEMORY) button to save the track number.

CD 02 P-01

5 Repeat steps 2 - 4 for other tracks. Up to 32 tracks can be programmed.

If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR/DIMMER button.

6 Press the ■ (CD ■) button.

The total number in memory will appear.

MEMORY 08

7 Press the ▶ / ⌐ button to start playback.

20

To clear the programmed selections:
Press the CLEAR/DIMMER button on the remote control whilst the "MEMORY" indicator is flashing.
Each time the button is pressed, one track will be cleared, beginning with the last track programmed.
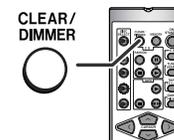
To cancel the programmed play mode:
Whilst in the stop mode and the "MEMORY" indicator is lit, press the CLEAR/DIMMER button on the remote control. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

Adding tracks to the programme:
If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 6 to add tracks. The new tracks will be stored after the last track of the original programme.

To check which tracks are programmed:
Whilst the unit is stopped in the programmed play mode, press the I◀◀ or ▶▶I button.

Notes:
- When a disc with programmed tracks is ejected, the programme is automatically cancelled.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD to another, the programmed selections will not be cleared.
- During the programme operation, random play is not possible.
- During programmed play, the DIRECT PLAY button will not work.

MP3/WMA navigation (only for MP3/WMA files)

MP3/WMA navigation:
You can search and play files by folder or title. For example, when you assign three titles to a file, enter genre (such as jazz) as title 1, album name as title 2, and music title as title 3 to search the file by any title.

● You can search and play files by folder or title 1/2/3 within one MP3/WMA disc (see page 22).
● By entering a name, you can search files by folder or title 1/2/3 within one MP3/WMA disc (see page 23).
● Folders or titles can be programmed within one MP3/WMA disc (see page 24).

When you enter file names on your PC, connect words with hyphens. This product recognises the first word as title 1, second one as title 2, and third one as title 3. Up to three words can be recognised.

Example:

```
Folder                    (File name)
   │
   ▼          Title 1   Title 2   Title 3
 AAA            │         │         │
   ├──────      ▼         ▼         ▼
   │        (POPULAR-HITS 1-A MUSIC.mp3)
   ├────── (POPULAR-HITS 2-B MUSIC.mp3)
   │
 BBB
   ├────── (JAZZ-HITS 1-A MUSIC.mp3)
   ├────── (JAZZ-HITS 2-B MUSIC.mp3)
   ┊
 CCC
   ├────── (ROCK-HITS 1-A MUSIC.mp3)
   ├────── (ROCK-HITS 2-B MUSIC.mp3)
   ├────── (ROCK-HITS 3-C MUSIC.mp3)
   └────── (ROCK-HITS 4-D MUSIC.mp3)
```


NAVIGATION   ENTER

CHARACTER

Folder   Title 1

Title 2   Title 3

FOLD TITLE-1 TITLE-2 TITLE-3
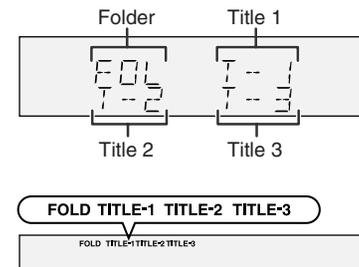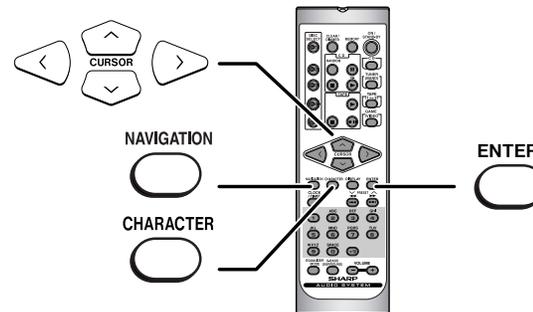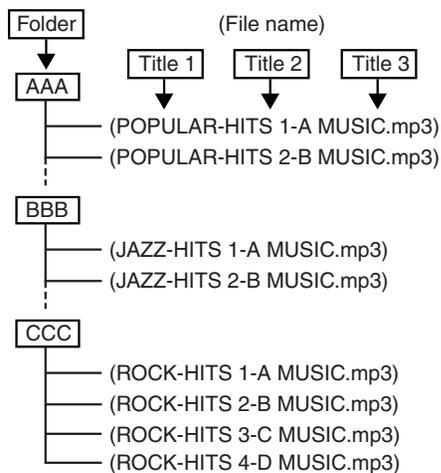
Notes:
● MP3 files must have the extension ".mp3".
● WMA files must have the extension ".wma".
● Up to 100 folders or 300 files can be read on the unit. If either limit is exceeded, no more folders/files are displayed.
● This unit recognises and displays up to 48 characters for folder names, and up to 32 characters for title 1/2/3.
● All file/folder names appear in uppercase.

CD or MP3/WMA disc Playback

21

MP3/WMA navigation (only for MP3/WMA files) (continued)

CD or MP3/WMA disc Playback

■ **File search (by folder or title 1/2/3)**

You can search and play files by folder or title 1/2/3 within one MP3/WMA disc.

1 Press one of the ☺ **1 -** ☺ **5 buttons to select a disc tray containing an MP3/WMA disc.**

2 Press the ► / ⌐ **button, and the unit starts to read the MP3/WMA disc.**

3 Press the CD ■ button to stop playback.

"NAVI READ" appears and the display shows the total number of folders and files on the selected disc.

```
NAVI READ          FOLDER    04
                   FILE      10
```
MP3 indicator
WMA indicator
Total number of folders   Total number of files
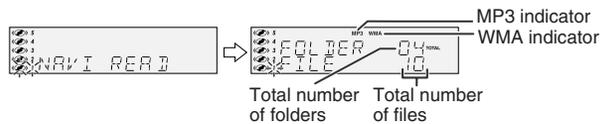
4 Press the NAVIGATION button.

5 Press the ＜**,** ＞**,** ∧ **or** ∨ **cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3". To search files by folder name, select "FOL" (will flash).**

Folder   Title 1
```
FOL   T-1
T-2   T-3
```
Title 2   Title 3
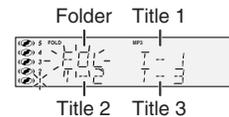
The following steps describe file search by folder:

6 Press the ENTER button.

The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.

```
04 FOUND          001-AAA
                  002-BBB
```
Folder name

● The NAVIGATION button allows you to go one step back.

● Press the DISPLAY button to check the number of files.

```
001-AAA
11011 FILE
```

7 Use the ∧ **or** ∨ **cursor button to scroll and select a folder (or title), and then press the ENTER button.**

Folder name
```
001-AAA          003-CCC
002-BBB          004-DDD
```
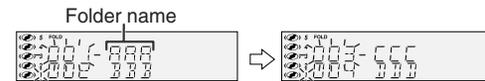
If you press the ► / ⌐ button instead of the ENTER button, all files in the selected folder (or title) are played.

8 Use the ∧ **or** ∨ **cursor button to scroll and select a file.**

File name
```
001-ROCK-H       003-ROCK-H
002-ROCK-H       004-ROCK-H
```

9 Press the ► / ⌐ **button to start playback.**

The unit plays from the selected file to the last file in the selected folder (or title), and the previous display returns.

File search by title 1/2/3:

● In step 5, select "T-1", "T-2" or "T-3" and follow the same steps as file search by folder.

● The unit searches all files on the disc, regardless of the folder.

To stop playback:

Press the CD ■ button.

To exit the MP3/WMA navigation mode:

In the stop mode, press the CD ■ button.

Notes:

● In the MP3/WMA navigation mode, direct play and direct search functions are disabled.

● If a folder, title or file name does not appear, or appears incorrectly, remove and reinsert the disc and try again.

● If you press the RANDOM button in the stop mode, the MP3/WMA navigation mode will be cancelled.

■ Character search (for folder or title 1/2/3)

By entering a name, you can search files by folder or title 1/2/3 within one MP3/WMA disc.

1 Perform steps 1 - 3 in "File search (by folder or title 1/2/3)" on page 22.

2 Press the NAVIGATION button.

3 Press the ＜, ＞, ∧ or ∨ cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3". To search files by folder name, select "FOL" (will flash).

Folder   Title 1

Title 2   Title 3
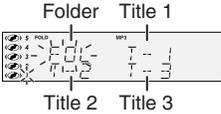
4 Press the CHARACTER button for 2 seconds.

The display will be ready for editing characters.

1st row: String table

2nd row: Input editor (8 digits)

5 Press the ＜ or ＞ cursor button to select the desired alphabet.

Press the ◄◄ or ►►I button to go to the next page of character display.

6 Press the CHARACTER button and the active character will be entered in the 2nd row of the display.

To delete an entered character, move the cursor to the character with the ∧ or ∨ button and press the CLEAR/DIMMER button on the remote control.

7 Repeat steps 5 and 6 to enter characters.

In the folder (or title) name search, you do not have to enter the full name. The unit searches for names beginning with the entered characters.

8 When finished, press the ENTER button. The unit searches for the same name within folders (or titles).

If the search word is not in the folder (or title) name, "NOT FOUND" appears and the menu returns.

9 Use the ∧ or ∨ cursor button to scroll and select a folder (or title).

10 Press the ► / ⌐ button to start playback.

All files in the selected folder (or title) are played, and the previous display returns.

To exit the MP3/WMA navigation mode:
In the stop mode, press the CD ■ button.

Notes:
● The unit searches regardless of the case, and names found will appear in uppercase.
● Some symbols do not appear properly.

Character entry with direct buttons:

The direct buttons on the remote control can also be used for character entry.
In step 5 on the left, use buttons 0 - 9 to enter alphabets.
Alphabet types change as you press a button.

	ABC	DEF	GHI
1	2	3	4
JKL	MNO	PQRS	TUV
5	6	7	8
WXYZ	SPACE		
9	0		
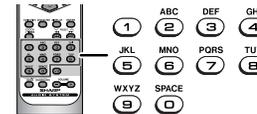
For example, press "2" four times to enter "C".

2 ⟶ A ⟶ B ⟶ C

Characters:

1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9	SPACE 0
1	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	8 TUV	9 WXYZ	0 ⬚

⬚ : indicates a space.

MP3/WMA navigation (only for MP3/WMA files) (continued)

■ Programmed play (for folder, title 1/2/3)

Folders or titles can be programmed within one MP3/WMA disc. Folder, title 1, title 2 and title 3 cannot be programmed together simultaneously.

1   **Perform steps 1 - 3 in "File search (by folder or title 1/2/3)" on page 22.**

2   **Press the NAVIGATION button.**

3   **Press the <, >, ∧ or ∨ cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3" and then press the ENTER button.**

     The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.

4   **Press the ∧ or ∨ cursor button to select the desired folder (or title) and then press the MEMORY/SET (MEMORY) button.**

     The folder (or title) is memorised with all the files.

5   **Repeat step 4 for other folders (or titles).**

     Up to 10 folders (or 10 titles) can be programmed.

6   **Press the ▶ / ⌣ button to start playback.**

     Programmed play will always start from the smallest folder (or title) number.

To stop playback:
Press the CD ■ button.
● The programmed contents are not cleared.

To check, add or delete programmed contents:
In the stop mode, select a folder (or title) with the ∧ or ∨ cursor button. If the folder (or title) is programmed, "MEMORY" flashes.

Flashes if the folder (or title) is programmed
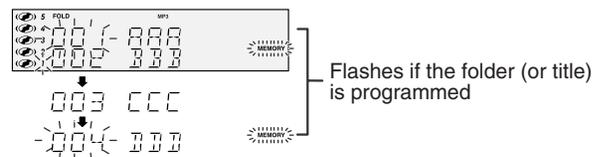
● When you press the MEMORY/SET (MEMORY) button with "MEMORY" flashing, the folder (or title) is removed from the programme.
● If you press the MEMORY/SET (MEMORY) button with "MEMORY" off, the folder (or title) is added to the programme.
● To clear all programmes, press the CLEAR/DIMMER button in the stop mode.

To exit the MP3/WMA navigation mode:
In the stop mode, press the CD ■ button.
● The programmed contents are cleared.

Notes:
● The programmed contents are cleared when you eject a disc, play another disc, switch the function, or enter the stand-by mode with the ON/STAND-BY button.
● During programmed play, the DIRECT PLAY button on the main unit will not work.
● If you press the RANDOM button in the stop mode, the MP3/WMA navigation mode will be cancelled.

If tracks are programmed using track numbers (see "Programmed play" on page 20):
In the MP3/WMA navigation mode, only programme by folder (or title) name are played. When you exit the mode, the programme by folder (or title) name are cleared.
When you exit the MP3/WMA navigation mode, programme by track number are cancelled.
(Programme by track number are cleared when you remove the disc.)

CD or MP3/WMA disc Playback

Listening to the radio
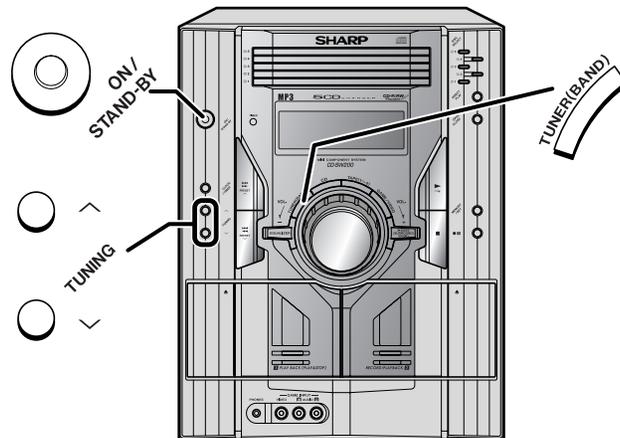
Auto power on function:
When you press any of the following buttons, the unit turns on.
● TUNER (BAND) button (main unit and remote control): The unit turns on and the "TUNER" function is activated.
● ► / ⌐ button on the main unit: The unit turns on and playback of the last function starts (CD, TAPE, TUNER, GAME/VIDEO).

Note:
This product can receive FM stereo/FM monaural and AM monaural broadcasts. AM stereo broadcasts will not be played in stereo.

■ Tuning

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).

3 Press the TUNING (∨ or ∧) button to tune in to the desired station.

Manual tuning:

Press the TUNING button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:
● When radio interference occurs, auto scan tuning may stop automatically at that point.
● Auto scan tuning will skip weak signal stations.
● To stop the auto tuning, press the TUNING button again.

To receive an FM stereo transmission:
Press the TUNER (BAND) button to display the "ST" indicator.
● "∞" will appear when an FM broadcast is in stereo.
● If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

FM stereo mode indicator

FM stereo receiving indicator

Radio

25

Listening to a cassette tape (TAPE 1 or TAPE 2)

Before playback:
- **For playback, use normal or low-noise tapes for the best sound. (Metal or CrO$_2$ tapes are not recommended.)**
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.
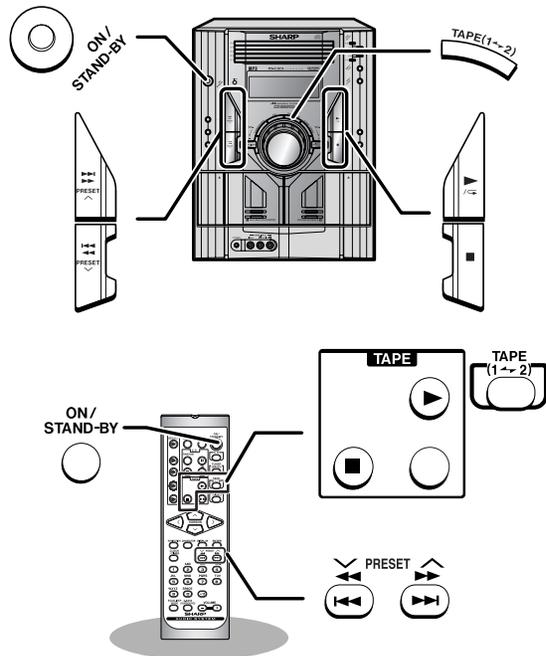
■ Tape playback

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Open the cassette compartment by pushing the area marked "⏏".**
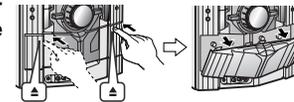
3 **Load a cassette into the TAPE 1 compartment or TAPE 2 compartment with the side to be played facing towards you.**

| TAPE 1 | TAPE 2 |
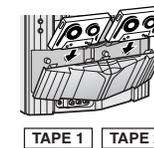
4 **Press the TAPE (1 ⇆ 2) button to select the cassette you want to listen to.**

> TAPE 1 ⇔ TAPE2

5 **Press the ► / ⤶ (TAPE ►) button to start playback.**

> TAPE 1
> PLAY

Tape play indicator

Auto power on function:
When you press any of the following buttons, the unit turns on.
- TAPE button (main unit and remote control): The unit turns on and the "TAPE" function is activated.
- TAPE ► button on the remote control: The unit turns on and playback starts (regardless of the last function).
- ► / ⤶ button on the main unit: The unit turns on and playback of the last function starts (CD,TAPE,TUNER,GAME/VIDEO).

Auto power off function:
In the stop mode of tape operation, the main unit enters the stand-by mode after 15 minutes of inactivity.

Tape Playback

27

Tape Playback

Listening to a cassette tape (TAPE 1 or TAPE 2) (continued)

■ Various tape functions

Function	Main unit	Remote control	Operation
Playback		▶	Press in the stop mode.
Stop		■	Press in the playback, fast forward or rewind mode.
Fast forward/ Rewind (TAPE 2 only)		PRESET ◀◀ ▶▶	Press in the playback or stop mode.

Caution:
- To remove the cassette, press the ■ (TAPE ■) button, and then open the compartment.
- Before changing from one tape operation to another, press the ■ (TAPE ■) button.
- If a power failure occurs during tape operation, the tape head will remain engaged with the tape and the cassette door will not open. In this case, wait until the power is restored.

Recording on a cassette tape

Before recording:
- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal (Variable Sound Monitor).
- **For recording, use only normal tapes. Do not use metal or CrO_2 tapes.**

Erase-prevention tab of cassette tapes:
- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with adhesive tape to record on the tape without the tab.

Side A

Tab for side B   Tab for side A

28
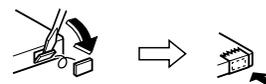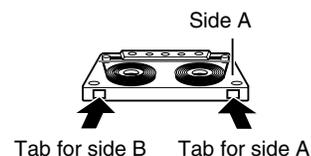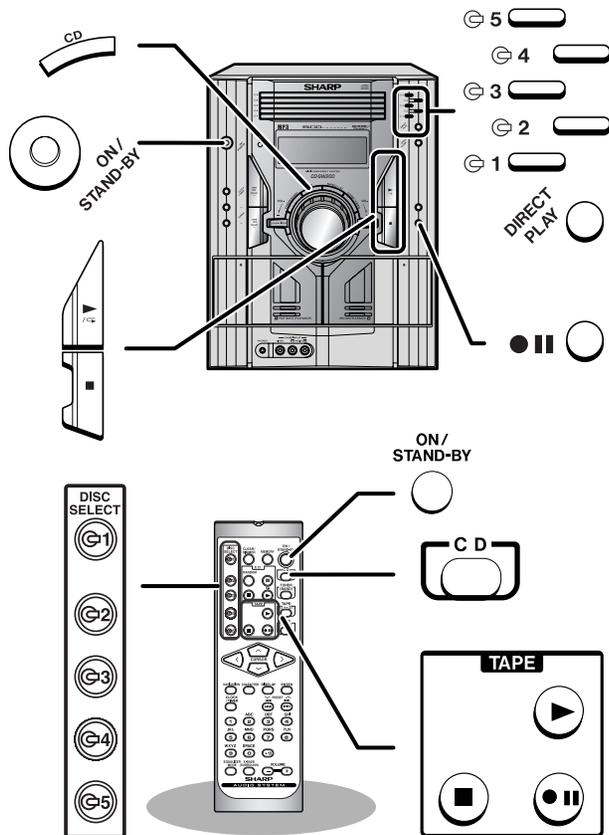
■ Recording from a CD or MP3/WMA disc

You can record the desired disc using the DIRECT PLAY button.

|	
1	**Press the ON/STAND-BY button to turn the power on.**
2	**Press the CD button.**
3	**Load a cassette into the TAPE 2 cassette compartment with the side to be recorded on facing you.** Wind past the leader of the tape, on which recording cannot be performed.
4	**Press the ●II button.** Recording will be paused.
5	**Press one of the ⊝1 - ⊝5 buttons to select the desired disc.**
6	**Within 5 seconds, press the DIRECT PLAY button to start recording.** ● Recording is started from the selected disc. When the playback of the last track is finished or the end of the tape is reached, the disc and the cassette will stop automatically. ● Playback of the disc will start approximately 7 seconds after the tape starts.

To stop recording:
Press the ■ (TAPE ■) button.
The disc and tape will stop.

Tape Recording

29

Recording on a cassette tape (continued)

Recording from several CDs continuously:

1 Perform steps 1 - 5 in "Recording from a CD or MP3/WMA disc" on page 29.
2 Within 5 seconds, press the ▶ / ⊏ (TAPE ▶) button to start recording.

To perform programmed recording:

1 Programme discs and tracks (see page 20).
2 Press the ●II button.
3 Press the ▶ / ⊏ (TAPE ▶) button to start recording.

To stop recording:

Press the ■ (TAPE ■) button.
The disc and tape will stop.

■ Recording from the radio

1	**Tune in to the desired station (see page 25).**
2	**Load a cassette into the TAPE 2 cassette compartment with the side to be recorded on facing you.** Wind past the leader of the tape, on which recording cannot be performed.
3	**Press the ●II button.** Recording will be paused. `TUNER ┐╷╷╷` `⊐REC⌐`
4	**Press the ▶ / ⊏ (TAPE ▶) button to start recording.**

To interrupt recording:

Press the ●II button.
To resume recording, press the ▶ / ⊏ (TAPE ▶) button.

To stop recording:

Press the ■ (TAPE ■) button.

Note:

If you hear a whistling noise whilst recording an AM station, move the AM loop aerial.

■ Dubbing from tape to tape

You can record from TAPE 1 to TAPE 2.

1	**Press the ON/STAND-BY button to turn the power on.**
2	**Load a prerecorded cassette into the TAPE 1 cassette compartment. Insert a blank tape into the TAPE 2 cassette compartment.** `TAPE 1` `TAPE 2` It is recommended that the recording tape is the same length as the master tape.
3	**Press the TAPE (1 ⇀ 2) button until "TAPE 1" appears on the display.**
4	**Press the ●II button.** Recording will be paused. `TAPE 1 ┐╷╷╷` `⊐REC⌐`
5	**Press the ▶ / ⊏ (TAPE ▶) button to start dubbing.**
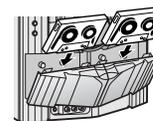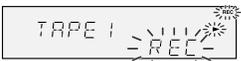
To stop dubbing:

Press the ■ (TAPE ■) button.
TAPE 1 and TAPE 2 will stop simultaneously.

■ Erasing recorded tapes

1 Load the tape to be erased into the TAPE 2 cassette compartment with the side to be erased facing towards you.
2 Press the TAPE (1 ⇀ 2) button until "TAPE 2" appears on the display.
3 Press the ●II button.
4 Press the ▶ / ⊏ (TAPE ▶) button to start erasing.

Note:

Make sure that the TAPE 1 is not in use.

Timer and sleep operation

Timer playback:
The unit turns on and plays the desired source (CD, tuner, tape) at a preset time.

Timer recording:
The unit turns on and starts recording from the tuner at the preset time.

| This unit has 2 types of timer: ONCE TIMER and DAILY TIMER. |
| --- |
| **Once timer:** Once timer play or once timer recording works for one time only at a preset time. For example, if you are away but want to record a programme on a radio station. |
| **Daily timer:** Daily timer play or daily timer recording works at the same preset time every day. For example, set the timer as a wake-up call every morning. |

Using the once timer and daily timer in combination:
For example, use the once timer to record a radio programme, and use the daily timer to wake up.
1 Set the daily timer (pages 31 - 33).
2 Set the once timer (pages 31 - 33).
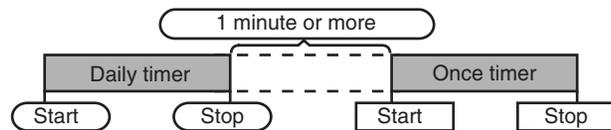
Note:
When set times for the daily timer and once timer overlap, the once timer takes priority. Allow an interval of at least 1 minute between operations.
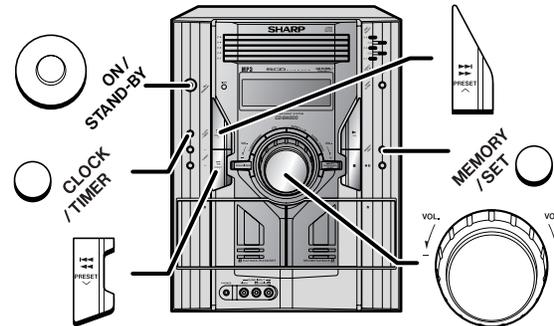
■ Timer playback or timer recording
Before setting timer:

1 Check that the clock is set to the correct time (refer to page 14). If it is not set, you cannot use the timer function.
2 For timer playback: Load a cassette or discs to be played. For timer recording: Load a cassette for recording in the cassette compartment.

⇩

1	**Press the ON/STAND-BY button to turn the power on.**
2	**Press the CLOCK/TIMER button.**
3	**Within 10 seconds, press the I◄◄ ◄◄ or ►► ►►I button to select "ONCE" or "DAILY", and press the MEMORY/SET (MEMORY) button.**

Set the clock to the correct time if "ONCE" or "DAILY" does not appear.

Advanced Features

31

Timer and sleep operation (continued)

Advanced Features

4 **Within 10 seconds, press the** I◄◄ ◄◄ **or** ►► ►►I **button to se-lect "ONCE SET" or "DAILY SET", and press the MEMORY/ SET (MEMORY) button.**

ONCE SET	DAILY SET

5 **Press the** I◄◄ ◄◄ **or** ►► ►►I **button to select "PLAY" or "REC", and press the MEMORY/SET (MEMORY) button.**

White · Red

PLAY ☀DAILY	⬄	REC ☀DAILY

The illustrations show the daily timer setting.

6 **Press the** I◄◄ ◄◄ **or** ►► ►►I **button to adjust the hour and then press the MEMORY/SET (MEMORY) button.**

10:00 ☀DAILY	⟹	10:00 ☀DAILY

The illustrations show the timer playback setting in the daily tim-er mode.

7 **Press the** I◄◄ ◄◄ **or** ►► ►►I **button to adjust the minutes and then press the MEMORY/SET (MEMORY) button.**

10:30 ☀DAILY

8 **Set the time to finish as in steps 6 and 7 above.**

9 **Switch input with the** I◄◄ ◄◄ **or** ►► ►►I **button, and then press the MEMORY/SET (MEMORY) button.**

To select the timer playback source: CD, TUNER, TAPE 1 or TAPE 2.

To select the timer recording source: TUNER.

● When you select the tuner, select a station by pressing the I◄◄ ◄◄ or ►► ►►I button, and then press the MEMORY/SET (MEMORY) button.

● If a station has not been programmed, "NO PRESET" will be displayed and timer setting will be cancelled.

10 **Adjust the volume using the VOLUME control, and then press the MEMORY/SET (MEMORY) button.**

Do not turn the volume up too high.

11 **Press the ON/STAND-BY button to enter the power stand-by mode.**

The "TIMER" indicator lights up and the unit is ready for timer playback or timer recording.

TIMER

32
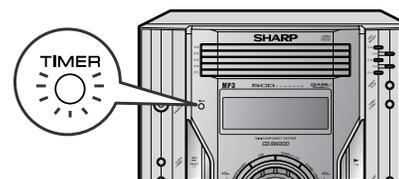
12 When the preset time is reached, playback or recording will start.

The volume will increase gradually until it reaches the preset volume.

13 When the timer end time is reached, the system will enter the power stand-by mode automatically.

Once timer:

The timer will be cancelled.

Daily timer:

The timer will operate at the same time every day. It will continue until the daily timer setting is cancelled. Cancel the daily timer when it is not in use.

Note:

When performing timer playback or recording using another unit connected to the GAME INPUT sockets, select "GAME" in step 9.
This unit will turn on or enter the power stand-by mode automatically, however, the connected unit will not turn on or off.

Checking the timer setting in the timer stand-by mode:
1 Press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE" or "DAILY", and press the MEMORY/SET (MEMORY) button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE CALL" or "DAILY CALL", and press the MEMORY/SET (MEMORY) button.
The unit returns to the timer stand-by mode after displaying the settings in order.

Cancelling the timer setting in the timer stand-by mode:
1 Press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE" or "DAILY", and press the MEMORY/SET (MEMORY) button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE OFF" or "DAILY OFF", and press the MEMORY/SET (MEMORY) button.
Timer will be cancelled (the setting will not be cancelled).

Reusing the memorised timer setting:
The timer setting will be memorised once it is entered. To reuse the same setting, perform the following operations.
1 Turn the power on and press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE" or "DAILY", and press the MEMORY/SET (MEMORY) button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE ON" or "DAILY ON", and press the MEMORY/SET (MEMORY) button.
4 Press the ON/STAND-BY button to enter the power stand-by mode.

Note:
The timer can also be set with the remote control.

Advanced Features

33

Timer and sleep operation (continued)

Advanced Features

34

■ Sleep operation

The radio, CD, MP3/WMA disc and cassette tape can all be turned off automatically.

1	**Play back the desired sound source.**
2	**Press the CLOCK/TIMER button.**
3	**Within 10 seconds, press the I◄◄ ◄◄ or ►► ►►I button to select "SLEEP", and press the MEMO-RY/SET (MEMORY) button.** `SLEEP`
4	**Press the I◄◄ ◄◄ or ►► ►►I button to select the time.** **(Maximum: 3 hours - Minimum: 1 minute)** ● 3 hours - 5 minutes → 5-minute intervals ● 5 minutes - 1 minute → 1-minute intervals
5	**Press the MEMORY/SET (MEMORY) button.** "SLEEP" will appear. `TUNER FM 98.80 MHz` SLEEP
6	**The unit will enter the power stand-by mode automatically after the preset time has elapsed.** The volume will be turned down 1 minute before the sleep operation finishes.

To confirm the remaining sleep time:
1 Whilst "SLEEP" is indicated, press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◄◄ ◄◄ or ►► ►►I button to select "SLEEP X : XX".
    "X : XX" is remaining sleep time.
● The remaining sleep time is displayed for about 10 seconds.
● You can change the remaining sleep time whilst it is displayed by pressing the MEMORY/SET (MEMORY) button.

To cancel the sleep operation:
Press the ON/STAND-BY button whilst "SLEEP" is indicated.
To cancel the sleep operation without setting the unit to the stand-by mode, proceed as follows.
1 Whilst "SLEEP" is indicated, press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◄◄ ◄◄ or ►► ►►I button to select "SLEEP OFF", and press the MEMORY/SET (MEMORY) button.

■ To use timer and sleep operation together

Sleep and timer playback:
For example, you can fall asleep listening to the radio and wake up to CD in the next morning.

Sleep and timer recording:
For example, you can fall asleep listening to the CD and record radio programmes whilst sleeping.

1 Set the sleep time (see left, steps 1 - 5).

2 Whilst the sleep timer is set, set the timer playback or recording (steps 2 - 10, pages 31 - 32).

Sleep timer setting   Timer playback or recording setting   End time

| 1 minute - 3 hours | | Desired time |

Sleep operation will automatically stop.   Timer playback or recording start time
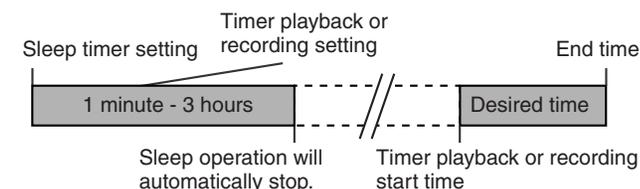
Caution:
When using the cassette deck, be sure the tape length is long enough to perform both functions. If you want to sleep and wake up listening to a tape, and the length of the tape is shorter than the sleep timer setting, timer playback or recording will not be possible.

Enhancing your system

CD-SW200E

The connection lead is not included. Purchase a commercially available lead as shown below.

Game, VCR, DVD player, etc.

To the line output sockets

White

Yellow

Red

GAME INPUT
VIDEO L AUDIO R

Yellow White Red

Video cable (not supplied)   RCA lead (not supplied)

TV

To video input socket

Yellow

Video cable (not supplied)

VIDEO OUT

Yellow
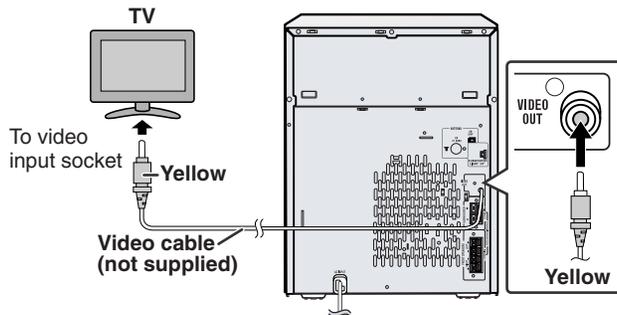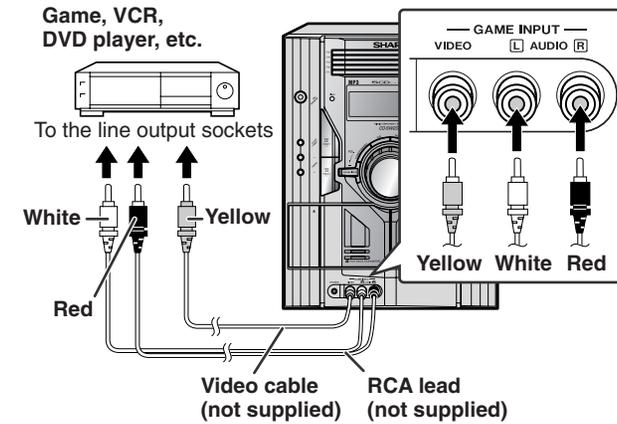
■ **Listening to playback sounds of Game, VCR, DVD, etc.**

1 Connect a video game system, VCR, DVD, etc. to the front GAME INPUT (VIDEO, AUDIO L and R) sockets.

2 Connect a TV to the rear VIDEO OUT sockets.

Switch the TV input to auxiliary.

3 Press the ON/STAND-BY button to turn the power on.

4 Press the GAME/VIDEO button.

5 Play the connected equipment.

You can enjoy sounds from the supplied speakers and images on the TV.

Note:
To prevent noise interference, place the unit away from the television.

Auto power on function:
When you press any of the following buttons, the unit turns on.
● GAME/VIDEO button (main unit and remote control): The unit turns on and the "GAME" function is activated.
● ► / ⌐ button on the main unit: The unit turns on and playback of the last function starts (CD,TAPE,TUNER,GAME/VIDEO).

■ **To record on a tape from game, VCR, etc.**

1 Insert a cassette in the TAPE 2 cassette compartment.

2 Press the GAME/VIDEO button.

3 Press the ●II button.

4 Press the ► / ⌐ (TAPE ►) button.

5 Start the game system, VCR, etc.

Advanced Features

35

17/03/05   CD-SW200EA 31-40 .fm

Advanced Features

Enhancing your system (continued)

■ Headphones
● Before plugging in or unplugging the headphones, reduce the volume.
● Be sure your headphones have a 3.5 mm (1/8") diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
● Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.

PHONES
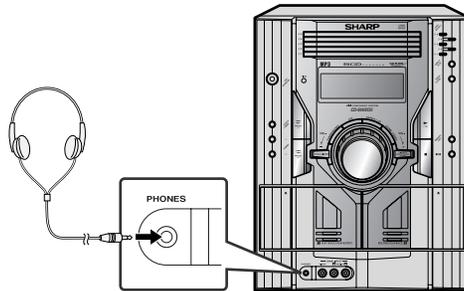
Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not set to the correct time.	● Did a power failure occur? Reset the clock. (Refer to page 14.)
● When a button is pressed, the unit does not respond.	● Set the unit to the power standby mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 38.)
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

05/3/8   CD-SW200EA 31-40 .fm

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO_2 tape.)
● Sound skipping.	● Is there any slack? ● Is the tape stretched?
● Cannot hear treble. ● Sound fluctuation.	● Are the capstans, pinch rollers, or heads dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment with great force.

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity correct? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it's located nearby.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

References

37

Troubleshooting chart (continued)

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:
1. Set the unit to the stand-by mode and turn the power on again.
2. If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:
If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)
1. Press the ON/STAND-BY button to enter the power stand-by mode.
2. Whilst pressing down the ●II button and the X-BASS (SURROUND)/DEMO button, press the TUNING ∨ button until "CLEAR ALL" appears.
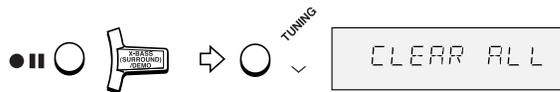
Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ Before transporting the unit

Remove all CDs from the unit. Make sure there is no CD in the disc tray. Then, set the unit to the power stand-by mode. Carrying the unit with discs left inside can damage the unit.

■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.
● Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
● Keep your discs away from direct sunlight, heat, and excessive moisture.
● Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.


38
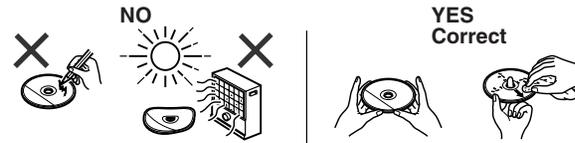
Maintenance

■ Cleaning the tape-handling parts
● Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
● When cleaning the heads, pinch rollers, etc., unplug the unit which contains high voltages.
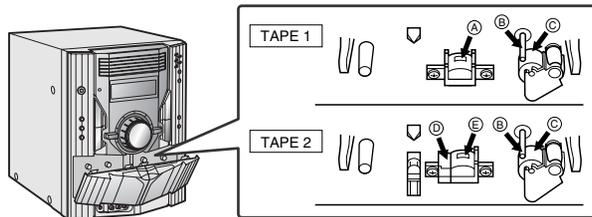
Ⓐ Playback head
Ⓑ Capstans
Ⓒ Pinch rollers
Ⓓ Erase head
Ⓔ Recording/Playback head

● After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ Cleaning the cabinet
Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:
● Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
● Do not apply oil to the inside of the unit. It may cause malfunctions.

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 230 - 240 V, 50 Hz
Power consumption	200 W
Dimensions	Width: 260 mm (10-1/4") Height: 330 mm (13") Depth: 326 mm (12-7/8")
Weight	10.4 kg (22.9 lbs.)

■ Amplifier

Output power	Front Speaker: MPO: 380 W (190 W + 190 W) (10% T.H.D) RMS: 200 W (100 W + 100 W) (10% T.H.D) RMS: 156 W (78 W + 78 W) (0.9% T.H.D)
	Subwoofer: MPO: 380 W (10% T.H.D) RMS: 200 W (10% T.H.D) RMS: 166 W (0.9% T.H.D)
Output terminals	Front Speakers: 6 ohms
	Subwoofer: 12 ohms
	Headphones: 16 - 50 ohms (recommended: 32 ohms)
	Video output: 1Vp-p
Input terminals	Game/ Auxiliary (audio signal): 500 mV/ 47 k ohms
	Game/Video: 1Vp-p

References

39

Specifications (continued)

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz
	AM: 522 - 1,620 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3 % (WRMS)

■ Front Speaker

Type	3-way type speaker system Super tweeter 5 cm (2") tweeter 13 cm (5-1/8") woofer
Maximum input power	200 W
Rated input power	100 W
Impedance	6 ohms
Dimensions	Width: 180 mm (7-1/16") Height: 330 mm (13") Depth: 212 mm (8-6/16")
Weight	3.0 kg (6.6 lbs.) /each

■ Subwoofer

Type	Full Range 20 cm (8") subwoofer
Maximum input power	400 W
Rated input power	200 W
Impedance	12 ohms
Dimensions	Width: 250 mm (9-13/16") Height: 330 mm (13") Depth: 294 mm (11-9/16")
Weight	5.9 kg (13 lbs.)

References

40

MEMO

MEMO

SHARP

FOR LOCATION ENQUIRIES WITHIN

AUSTRALIA

REGARDING YOUR LOCAL

SHARP APPROVED SERVICE CENTRE

VISIT OUR WEBSITE AT

www.sharp.net.au

OR CALL SHARP CUSTOMER CARE

1300 135 022

(LOCAL CALL COST APPLY WITHIN AUSTRALIA)

SHARP CORPORATION OF AUSTRALIA PTY LTD

SHARP

FOR LOCATION ENQUIRIES WITHIN

NEW ZEALAND

REGARDING YOUR LOCAL

SHARP APPROVED SERVICE CENTRE

VISIT OUR WEBSITE AT

www.sharp.net.nz

CONTACT YOUR SELLING DEALER/RETAILER
OR CALL

SHARP CUSTOMER SERVICES

TELEPHONE: 09 573 0111
FACSIMILE: 09 573 0113

SHARP CORPORATION OF NEW ZEALAND LIMITED

SPform019(JUNE 2004)

SHARP

WARRANTY

Consumer Electronic Products

Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve(12) months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

IMPORTANT
DO NOT RETURN THIS DOCUMENT TO SHARP

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No. _____   Date of Purchase _____

Serial No. _____   Retailer_____

SHARP CORPORATION OF
AUSTRALIA PTY. LIMITED
ABN 40 003 039 405
1 Huntingwood Drive
Huntingwood NSW 2148

SHARP CORPORATION OF
NEW ZEALAND LIMITED
59 Hugo Johnston Drive
Penrose, Auckland

SHJsm014 (JUNE 2004)

IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

SHARP

SHARP CORPORATION

TINSE A104 AWZZ
05D R AS ①